



Davidson County Fire Marshal
Office of the Fire Marshal
935 North Main Street
Lexington, NC 27292
(336) 242-2270

FOR OFFICIAL USE ONLY	
Permit Number: _____	
Application Date: / /	
Approval Date: / /	Initials: _____
Expiration Date: / /	
Denial Date / /	Initials: _____
Reason for the Denial: _____	
Fees Paid: \$	Check No. _____
Date: / /	Initials: _____

Blasting Permit Application

In accordance with the provisions of the North Carolina State Fire Prevention Code, a blasting permit must be obtained before a person is authorized to conduct any blasting or to use any explosive for the purpose of demolishing a structure or blasting out rock, gravel, earth, trees, or any other substance or material.

All information must be complete before the processing of a blasting permit application will proceed. This permit application and supporting documentation must be submitted in advance of planned blasting operations.

Permit Fee \$75.00

1. Subject Property

GPS #1 _____	
Location/ Name _____	GPS # 2 _____
GPS Format	DDD DMS DMM

2. Applicant (Person or Firm Responsible for Blasting Operations)

Name _____	Title _____
Blaster's Name _____	
Company Name _____	
Address _____	
City _____	, State, _____ Zip, _____
Daytime Telephone: () - _____	Fax: () - _____
Emergency Telephone: () - _____	

3. Property Owner

Name _____

Address _____

City _____, State, _____ Zip, _____

Daytime Telephone: () - Fax: () - _____

4. General Contractor

Name _____ Title _____

Company Name _____

Address _____

City _____, State, _____ Zip, _____

Daytime Telephone: () - Fax: () - _____

Emergency Telephone: () - _____

5. Permit Type

☐ Single Shot (48 hr.) ☐ 90 Day ☐ Other _____

6. Project Description

Estimated Start Date: _____ Estimated End of Blasting: _____

Describe the project and why blasting is a necessary part of the project:

7. Submission Requirements

This application shall be accompanied by the following information, unless otherwise specifically modified by the Fire Marshal or his designee:

- A. A legible sketch of the blast site showing measured distances to adjacent buildings, streets, utilities, wells, and other facilities.
- B. A blasting plan to include a description of the proposed blasting procedures, an estimate of the total number of cubic yards of material to be removed by blasting, an estimate of the number of blasts to be detonated, the quantity and type of explosives to be used, the maximum amount of explosives per delay, the maximum number of holes per delay, and the proposed placement of seismographs. (Delay shall mean a period of eight milliseconds or greater.)
- C. The proposed hours during which the blasting operations will be conducted.
- D. A safety plan to include traffic control, barricading, signage plan, and adverse weather operation plan.
- E. Will explosives be stored on site? (see checklist requirements if so)
- F. Any other studies or information deemed necessary by the Fire Official, which may include, but is not limited to:
 - 1 A pre-blast assessment, prepared by a geotechnical engineer or other blasting professional, which would assess the potential for damage to adjacent structures and facilities.
 - 2 A pre-blast inspection of all structures and facilities located within 500 feet of the proposed blast location. As part of the inspection, the structures and facilities would be videotaped and/or digitally photographed to document any pre-existing damage so that any claims for post-blast damages could be compared to the pre-blast inspection report.
 - 3 Hydrological study, Geological Study, Test Wells

8. Liability Insurance Required

Before a permit is issued, the Applicant must file with the jurisdiction a corporate surety bond in the principal sum of \$1,000,000 or a public liability insurance policy for the same amount, for the purpose of the payment of all damages to persons or property which arise from, or are caused by, the conduct of any act authorized by the permit upon which any judicial judgment results. The fire code official is authorized to specify a greater or lesser amount when, in his or her opinion, conditions at the location of use indicate a greater or lesser amount is required. Government entities shall be exempt from this bond requirement. The insurance policy shall state, "For blasting operations" and the policy shall name the Davidson County and any Sub-Contractors as an additional insured.

9. Permit Conditions

- A. Any blasting permit may be revoked for (1) failure to comply with provisions of the State and local codes; (2) failure to comply with any of the provisions of this permit; or (3) for any other cause if the Fire Official determines the continuance of the permit is not consistent with the provisions of the Code. A stop order may be issued for seismic readings above the limits set forth in NFPA 495, and for failure to comply with conditions of the permit. Such stop work order will be issued to the blasting permit representative and shall state conditions to be met before blasting resumes.
- B. This permit shall not be transferable whether by operation of law or otherwise, either from one location to another or from one person to another.
- C. All blasting operations shall be covered in such manner as to prevent fragments of rock, gravel, earth, trees, or other substances or materials from being thrown against or upon lots, buildings, utility lines, or any street or highway.
- D. Whenever blasting is being conducted in the vicinity of gas, electric, water, fire alarm, telephone, telegraph, or steam utilities, the blaster shall notify the appropriate representative of such utilities at least 24 hours in advance of blasting specifying the location and intended time of such blasting.
- E. Hours of detonation shall be limited to daylight hours, no earlier than 8:00 a.m. or later than 5:00 p.m., Monday through Friday, except by special exception specifically authorized by the Fire Official. Blasting shall also be prohibited on all Davidson County, State, and Federal Holidays.
- F. Water is a precious resource and measure shall be taken to protect ground water quality as found in the nearest well within 500 feet of the blasting location. Post blast testing shall be done no sooner than 24 hours or no later than 48 hours following a blast. Turbidity in wells tested shall be no greater than that which existed prior to the blasting as established in the pre-blast assessment.
- G. Any person detonating explosives shall first notify the Davidson County Emergency Communications Center that a blast is planned. Such notification shall be received at least twenty-four (24) hours prior to the planned detonation and shall give the time (within 30 minutes) of the planned detonation and the location where the blasting is to be done. The person detonating the explosives shall give an equivalent notice to each property owner that is located within 500 feet of the proposed blasting location.
- H. Additional Conditions:

10. Record Keeping

Persons responsible for blasting operations shall maintain a record of each blast. A copy of that record shall be filed with the Fire Official within twenty-four (24) hours of each blast. All original blasting records shall be retained by the persons responsible for the blasting operations for at least three (3) years following the cessation of the blasting operations and shall be available for inspection by the Fire Official. The blasting records shall contain the following minimum data:

- 1 Name of the person responsible for the blasting operation.
- 2 Location, date, and time of the blast.
- 3 Name of the blaster in charge.
- 4 Type of material blasted.
- 5 Number of holes, burden, and spacing.
- 6 Diameter and depth of holes.
- 7 Types of explosives used.
- 8 Amount of explosives used.
- 9 Maximum amount of explosives per delay period of eight (8) milliseconds or greater
- 10 Maximum number of holes per delay period of eight (8) milliseconds or greater
- 11 Method of firing and type of circuit
- 12 Weather conditions (including factors such as wind direction, cloud cover, etc.)
- 13 Height or length of stemming
- 14 Were mats or other types of protection used
- 15 Type of detonators used and delay periods used
- 16 Seismograph and air blast reading when measure, and from where measured

11 Certification and Signature

I hereby certify that I have read and examined this application and its attachments and that all of the information contained therein is true and correct. Furthermore, I certify that the proposed blasting operations will fully comply with the requirements contained in the North Carolina State Fire Prevention Code and NFPA 495. I agree to indemnify, save harmless, and defend the Davidson County, its agents and employees, from all claims, damages, costs, expenses, and charges, including attorney's fees, which arise out of or by reason of these blasting operations.

Applicant Company

Property Owner's Name

Applicant's Name

Property Owner's Signature

Applicant's Signature

Date: / /

Date: / /

Blasting Requirements Checklist

- () Complete and submit the attached permit application and supporting documentation in advance. An initial blasting inspection will be required at the time of permit issuance.
- () Request a blasting permit site inspection by calling (336) 242-2270
- () Pay all applicable permit fees in advance of the site inspection.
- () A 500 foot blasting perimeter will be required under any of the following conditions:
 - 1 Blasting that occurs in multiple jurisdictions
 - 2 Multiple blasting companies on a site and/or subdivision.
 - 3 Right-of-Way, roadway infrastructure improvements.

Blasting company representative shall provide GPS coordinates for each proposed blast site. A site blasting map will be issued with the permit indicating the 500 foot blasting perimeter. (Blasting conducted outside the perimeter will result in a stop work order and revocation of permit(s)).

- () Current certificate of liability insurance on file. (Additional insured names Davidson County)
 - () Provide a copy of blasting certifications, ATF licenses, and blaster resumes with a photograph ID. Annual records on file at the Fire Marshal's office for each blaster are acceptable.
 - () Each permit and site plan on site at all times during blasting operations.
 - () Provide a copy of any pre-blast surveys.
 - () Blasting within 500ft of a structure requires witness by a Fire Code Official for initial site blasts.
 - () Blasting mats provided and in use if within 500ft. of structures, beyond 500ft. a Fire Official may approve adequate cover in lieu of blasting mats.
 - () A safety plan to include traffic control, barricading, signage plan, and adverse weather operation plan must be on file with the Fire Marshal's office.
 - () Proper notification made to utility companies
 - () Notification made to Davidson County Emergency Communications Center (336) 249-0131
 - () The Fire Code Official will deliver the permit to the site and give it to the contractor once final approval is given to conduct blasting operations.
 - () Are explosive materials stored on site? (Additional permit and requirements for Fire Official)
-